## THE ASTROPHYSICAL JOURNAL LETTERS

# CONTENTS OF VOLUME 384, PART 2

# 1992 JANUARY 1, Number 1

ON THE ORIGIN OF THE DIPOLE ANISOTROPY AS DETERMINED BY QUADRUPOLE MEASUREMENTS S. Bottani, P. de Bernardis, & F. Melchiorri  X-RAY STUDY OF NGC 1399 IN THE FORNAX CLUSTER OF GALAXIES Y. Ikebe, T. Ohashi, K. Makishima, T. Tsuru, G. Fabbiano, DW. Kim, G. Trinchieri, I. Hatsukade, K. Yamashita, & H. Kondo  HIGH RATE FOR TYPE Ic SUPERNOVAE Richard A. Muller, Helidi Jo Marvin Newberg, Carlton R. Pennypacker, Saul Perlmutter, Timothy P. Sasseen, & Craig K. Smith  THE PECULIAR TYPE Ia SN 1991T: DETONATION OF A WHITE DWARF? Alexei V. Filippenko, Michael W. Richmond, Thomas Matheson, Joseph C. Shields, E. Margaret Burbidge, Ross D. Cohen, Mark Dickinson, Matthew A. Malkan, Brant Nelson, Jochen Pietz, David Schlegel, Patrick Schmeer, Hyron Spinrad, Charles C. Steidel, Hien D. Tran, & William Wren  THE UNUSUAL ULTRAVIOLET CHROMOSPHERIC SPECTRUM OF THE R CORONAE BOREALIS STAR, V854 CENTAURI (NSV 6708), AT MINIMUM LIGHT Geoffrey C. Clayton, Barbara A. Whitney, S. Adam Stanford, John S. Drilling, & P. G. Judge  SPATIAL STRUCTURE IN THE 10 MICRON SPECTRUM OF HD 44179 (THE RED RECTANGLE) G. L. Grasdalen, G. C. Sloan, & P. D. LeVan  INSTRUCTIONS TO AUTHORS OF LETTERS, RECENT LETTERS ABSTRACTS, AUTHOR AND SUBJECT INDEXES		Page	Fiche
Y. Ikebe, T. Ohashi, K. Makishima, T. Tsuru, G. Fabbiano, DW. Kim, G. Trinchieri, I. Hatsukade, K. Yamashita, & H. Kondo  HIGH RATE FOR TYPE Ic SUPERNOVAE Richard A. Muller, Heidi Jo Marvin Newberg, Carlton R. Pennypacker, Saul Perlmutter, Timothy P. Sasseen, & Craig K. Smith  THE PECULIAR TYPE Ia SN 1991T: DETONATION OF A WHITE DWARF? Alexei V. Filippenko, Michael W. Richmond, Thomas Matheson, Joseph C. Shields, E. Margaret Burbidge, Ross D. Cohen, Mark Dickinson, Matthew A. Malkan, Brant Nelson, Jochen Pietz, David Schlegel, Patrick Schmeer, Hyron Spinrad, Charles C. Steidel, Hien D. Tran, & William Wren  THE UNUSUAL ULTRAVIOLET CHROMOSPHERIC SPECTRUM OF THE R CORONAE BOREALIS STAR, V854 CENTAURI (NSV 6708), AT MINIMUM LIGHT Geoffrey C. Clayton, Barbara A. Whitney, S. Adam Stanford, John S. Drilling, & P. G. Judge  SPATIAL STRUCTURE IN THE 10 MICRON SPECTRUM OF HD 44179 (THE RED RECTANGLE) G. L. Grasdalen, G. C. Sloan, & P. D. LeVan  INSTRUCTIONS TO AUTHORS OF LETTERS, RECENT LETTERS ABSTRACTS,  Inside Back Coven		LI	6-A9
Richard A. Muller, Heidi Jo Marvin Newberg, Carlton R. Pennypacker, Saul Perlmutter, Timothy P. Sasseen, & Craig K. Smith  THE PECULIAR TYPE Ia SN 1991T: DETONATION OF A WHITE DWARF? Alexei V. Filippenko, Michael W. Richmond, Thomas Matheson, Joseph C. Shields, E. Margaret Burbidge, Ross D. Cohen, Mark Dickinson, Matthew A. Malkan, Brant Nelson, Jochen Pietz, David Schlegel, Patrick Schmeer, Hyron Spinrad, Charles C. Steidel, Hien D. Tran, & William Wren  THE UNUSUAL ULTRAVIOLET CHROMOSPHERIC SPECTRUM OF THE R CORONAE BOREALIS STAR, V854 CENTAURI (NSV 6708), AT MINIMUM LIGHT Geoffrey C. Clayton, Barbara A. Whitney, S. Adam Stanford, John S. Drilling, & P. G. Judge  SPATIAL STRUCTURE IN THE 10 MICRON SPECTRUM OF HD 44179 (THE RED RECTANGLE) G. L. Grasdalen, G. C. Sloan, & P. D. LeVan  INSTRUCTIONS TO AUTHORS OF LETTERS, RECENT LETTERS ABSTRACTS,  Inside Back Cover	Y. Ikebe, T. Ohashi, K. Makishima, T. Tsuru, G. Fabbiano, DW. Kim, G. Trinchieri, I. Hatsukade,	L5	6-B1
Alexei V. Filippenko, Michael W. Richmond, Thomas Matheson, Joseph C. Shields, E. Margaret Burbidge, Ross D. Cohen, Mark Dickinson, Matthew A. Malkan, Brant Nelson, Jochen Pietz, David Schlegel, Patrick Schmeer, Hyron Spinrad, Charles C. Steidel, Hien D. Tran, & William Wren  THE UNUSUAL ULTRAVIOLET CHROMOSPHERIC SPECTRUM OF THE R CORONAE BOREALIS STAR, V854 CENTAURI (NSV 6708), AT MINIMUM LIGHT Geoffrey C. Clayton, Barbara A. Whitney, S. Adam Stanford, John S. Drilling, & P. G. Judge  SPATIAL STRUCTURE IN THE 10 MICRON SPECTRUM OF HD 44179 (THE RED RECTANGLE) G. L. Grasdalen, G. C. Sloan, & P. D. LeVan  INSTRUCTIONS TO AUTHORS OF LETTERS, RECENT LETTERS ABSTRACTS,  Inside Back Cover	Richard A. Muller, Heidi Jo Marvin Newberg, Carlton R. Pennypacker, Saul Perlmutter,	L9	6-B7
V854 CENTAURI (NSV 6708), AT MINIMUM LIGHT Geoffrey C. Clayton, Barbara A. Whitney, S. Adam Stanford, John S. Drilling, & P. G. Judge  SPATIAL STRUCTURE IN THE 10 MICRON SPECTRUM OF HD 44179 (THE RED RECTANGLE) G. L. Grasdalen, G. C. Sloan, & P. D. LeVan  INSTRUCTIONS TO AUTHORS OF LETTERS, RECENT LETTERS ABSTRACTS,  Inside Back Cover	Alexei V. Filippenko, Michael W. Richmond, Thomas Matheson, Joseph C. Shields, E. Margaret Burbidge, Ross D. Cohen, Mark Dickinson, Matthew A. Malkan, Brant Nelson, Jochen Pietz, David Schlegel, Patrick Schmeer, Hyron Spinrad,	L15	6-C1
G. L. Grasdalen, G. C. Sloan, & P. D. LeVan  INSTRUCTIONS TO AUTHORS OF LETTERS, RECENT LETTERS ABSTRACTS,  Inside Back Cover	V854 CENTAURI (NSV 6708), AT MINIMUM LIGHT	L19	6-C8
The state of the s		L25	6-D1
		Inside B	ack Cover

## 1992 JANUARY 10, Number 2

	Page	Fiche
A COMPARISON OF THE PROPERTIES OF AN UNBIASED SAMPLE OF OB ASSOCIATIONS IN THE LOCAL GROUP GALAXIES M33 AND NGC 6822 Christine D. Wilson	L29	11-B1
THE ENERGY SOURCES POWERING THE LATE-TIME BOLOMETRIC EVOLUTION OF SN 1987A Nicholas B. Suntzeff, M. M. Phillips, J. H. Elias, D. L. DePoy, & A. R. Walker	L33	11-B6
EARLY-TIME SPECTRA OF TYPE Ic SUPERNOVAE: FURTHER EVIDENCE FOR THE PRESENCE OF HYDROGEN Alexei $V$ . Filippenko	L37	11-B11
THE PECULIAR, FAST NOVA HERCULIS 1991 Charles E. Woodward, R. D. Gehrz, Terry J. Jones, & G. F. Lawrence	L41	11-C1
THE CONTINUUM ECLIPSE OF PSR 1957+20 A. S. Fruchter & W. M. Goss	L47	11-C9
ON THE ORIGIN OF SUBMILLIMETER EMISSION FROM YOUNG STARS IN TAURUS-AURIGA Mary Barsony & Scott J. Kenyon	L53	11-D1

iv

## CONTENTS

	ruge	riche
THE TRIPLE RADIO CONTINUUM SOURCE IN SERPENS: ITS INTERACTION WITH THE AMBIENT MOLECULAR GAS	L59	11-D7
J. M. Torrelles, J. F. Gómez, S. Curiel, C. Eiroa, L. F. Rodríguez, & P. T. P. Ho		
THE MILLIMETER-WAVE SPECTRUM OF THE CAOH RADICAL ( $X^2\Sigma^*$ ) L. M. Ziurys, W. L. Barclay, Jr., & M. A. Anderson	L63	11-E1
INSTRUCTIONS TO AUTHORS OF <i>LETTERS</i> , RECENT <i>LETTERS</i> ABSTRACTS, AUTHOR AND SUBJECT INDEXES	Inside B	ack Cover

